

ABSTRACT

A triplate-type planar array antenna is provided with an antenna circuit board (3) on which an antenna circuit including a plurality of radiating elements (5), which are vertically and horizontally arrayed in a two-dimensional manner, and feedlines (6) is formed; two pieces of dielectric substances (2a, 2b) between which the antenna circuit board (3) is sandwiched at the both sides; a ground conductor (1) laminated on one dielectric substance (2b); and a slot board (4) laminated on the other dielectric substance (2a). One or more slot openings (7) corresponding to the plurality of radiating elements (5) with a linear arrangement are formed on the slot board (4).